

Amendments to the Specification:

Please replace paragraph 3, page 12, lines 10 and 16 with the following amended paragraph:

One skilled in the art will recognize a number of realizable position trackers, such as acoustic sensors and optical sensors. Moreover, although the position monitor 906 is shown as being carried by the participant 900, the position monitor 906 may alternatively be fixedly positioned in or around the environment or may include a mobile portion and a fixed portion. Similarly, a variety of gaze tracking structures may be utilized. In the embodiment of Figure 9, the gaze tracker utilizes a plurality of fiducial reflectors 910 positioned throughout the environment 902 or on the participants 900. To detect position, the gaze tracker 908 emits one or more IR beams outwardly into the environment 902. The IR beams may be generated by the image source ~~78~~ (not shown), or from separate IR sources mounted to the first portion 104. The emitted IR beams strike the fiducial 910 and are reflected. Because each of the fiducials 910 has a distinct, identifiable pattern of spatial reflectivity, the reflected light is modulated in a pattern corresponding to the particular fiducial 910. A detector mounted to the first portion 104 receives the reflected light and produces an electrical signal indicative of the reflective pattern of the fiducial 910. ~~The tether 110~~ A tether (not shown) carries the electrical signal to the second portion 108.

Please replace paragraph 1, page 13, line 10 with the following amended paragraph:

The second portion 108 includes an rf transceiver 904 with a mobile antenna 905 that transmits data corresponding to the detected reflected light and status information to an electronic controller 911. The electronic controller 911 is a microprocessor-based system that determines the desired image under control of a software program. The controller 911 receives information about the

participants' locations, status, and gaze directions from the transceivers 904 through a base antenna 907. In response, the controller 911 identifies appropriate image data and transmits the image data to the transceiver 904. The second portion 108 then provides signals to the first portion 104 through the tether, causing the scanner assembly 84 an image source 78 (not shown) to provide IR input to the NVG 72. The participants 900 thus perceive images through the NVG 72 that correspond to the participants' position and gaze direction.